BOATER'S

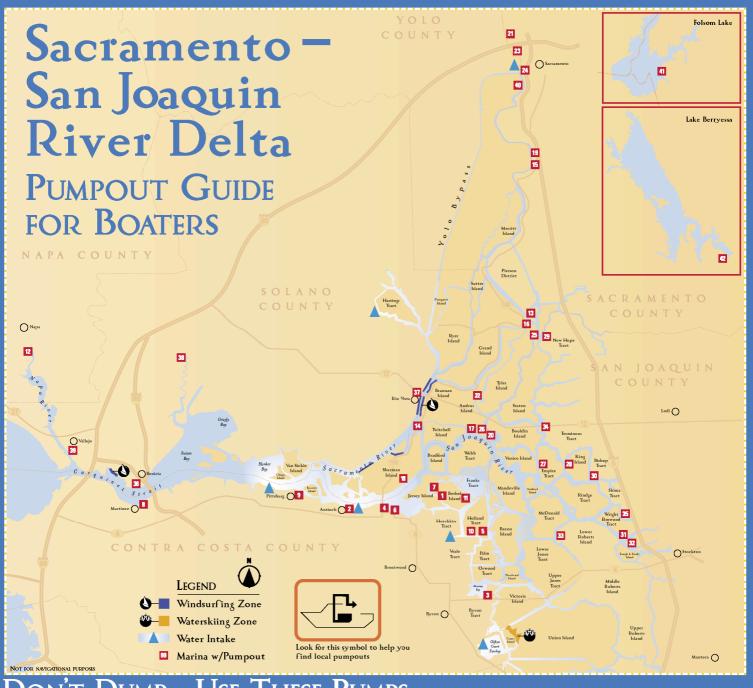
Pumpout Map & Guide

2005/2006



an Francisco Estuary Project

Published by the California Department of Boating & Waterways and the San Francisco Estuary Project



Dump... Use \centcal{T}

Co	ntra Costa County						
1	ANCHOR MARINA 1970 Taylor Rd, Bethel Island, CA 94511	925-684-9148	Fuel dock	Free	Dawn-dusk	No	Yes
2	ANTIOCH MARINA #5 Marina Plaza, Antioch, CA 94509	925-779-6957	Fuel dock	Free	24 hrs.	Pumpout wand	Yes
3	DISCOVERY BAY YACHT HARBOR 5901 Marina Rd., #1 Byron, CA 94514	925-634-5928	End of launch area	\$10 Discovery Bay residents \$5	24 hrs.	No	Yes
4	DRIFTWOOD MARINA	925-757-9449	Fuel dock	Free	8-4	No	Yes
5	HOLIAND RIVERSIDE MARINA 7000 Holland Tract Rd., Brentwood, CA 94513	925-684-3667	Dock near store	\$5	8-5 winter 8-7 summer	No	Yes
6	LAURITZEN YACHT HARBOR IIS Lauritzen Lane, Oaldey, CA 94561	925-757-1916	Fuel dock	Free to tenants: Cgals/\$C; 2Cgal/\$2C	73C-5 M-Th; 73C-9 F, 69 \$/\$ Closed Xmas, NYs & Thag	S Yes	Yes
7	MARINER COVE MARINA ROD Taylor Road, Bethel Island, CA 94511	925-684-2166	Near firel dock	\$5	9-5	No	Yes
8	MARTINEZ MARINA 7 N. Court St., Martinez, CA 94553	925-313-0942	Fuel dock	Free	24 hrs.	No	Yes
9	PITTSBURG MARINA	925-439-4958	Fuel dock	Free	8:30-4:30	No	Yes
	ROCK SLOUGH RESORT 4500 Holland Tract Road, Knightsen, CA 94548	925-684-3631	Pumpout dock ot	Free to tenants thers \$10 or \$20/20+5al	9-5 L	Use pumpout	No
11		925-684-8575	Fuel dock	Free w/3Cgals, filel Others \$5	9-5 9-7 Summer whinds	Yes	Yes
	Napa County						
12	NAPA VALLEY MARINA IZOD Milton Road, Napa, CA 94559	707-252-80II	Fuel dock	\$5	8-5 M-Sat 9-4 Sun	No	Yes
	SACRAMENTO COUNTY						
13	THE BOATHOUSE MARINA 5900 River Rd., Locke, CA 95690	916-776-1204	North end of fuel doc	sk \$10-\$20	8-430 M-F winter 8-6 M-F summer	No	No
	BRANNAN ISLAND STATE RECREATIONAL AREA 17645 State Hwy. 160, Rio Vista, CA 94571	916-777-6671	Berthing area off Three-Mile Slough	Free h	24 hrs.	Call for location	Yes
15	CLIFS MARINA 865 River Rd. Sacramento, CA 95832	916-665-1611	Fuel dock	\$10-15 see office first	9-5	No	Yes
	DAGMAR'S LANDING 14178 Hwy. 150, Walnut Grove, CA 95590	916-776-1961	On public Fishing dock	Free	Dawn to dusk Call ahead • winter	Use pumpout station	No
17	DHTA BAY MARINA & RV RESORT 950 W. Brannan Island Road, Isleton, CA 9554	916-777-4153	Guest dock	Free to tenants others \$15	8:30-5 summer; call for winter hours	No	Yes
10	EDDO'S HARBOR 19530 Sherman Island East Levee R Rio Vista, CA 94571	ld., 925-757-5314	Fuel dock	Free	8-5	Yes	Yes
19	FREIPORT MARINA 8250 Freeport Boulevard, Sacramento, CA 95832	916-665-1555	Fuel dock	\$5	8-5	No	Yes
20	KORTH'S PIRATES' LAIR MARINA 199 W. Brannan Island Rd, Isleton, CA 9564	916-777-6464	Fuel dock	Free to tenants others \$10	7-5	No	Yes
24	METRO MARINA 587 Garden Hwy., Sacramento, CA 95837	916-920-8088	Upper end of dock	\$10	Appt. only	Yes	Yes
22	OXBOW MARINA CD Oxbow Marina Dr., Isleton, CA 9564	916-777-6050	Fuel dock	Free	8-5	Yes	Yes
22	RIVERVIEW MARINA ISCI Garden Hwy., Sacramento, CA 95833	915-925-4100	Guest dock	Free	9-5	No	Yes
	SACRAMENTO MARINA 27'D Ramp Way, Sacramento, CA 95818	916-264-5712	Fuel dock Te	erants & fiel purchases free;	8:30-5 fall & winter, 8:30-7 spr, 8:30-8 sum	No	Yes

			Cost		DUMPOUT	RESTROCKS
SACRAMENTO COUNTY CONTINUED						
25 WALNUT GROVE MARINA 400 Old Levee Rd., Walnut Grove, CA 95690	916-776-1181	Fuel dock \$	C/5-Cgallons; \$2C/C-2Cgal 13C/over 2Cgal	8+5	No	Yes
26 WILLOW BERM MARINA 40 Brannan Island Rd., Isleton, CA 9854	916-777-6313	Fuel dock and each slip north end of harbor	Free	830-430	No	No
San Joaquin County						
27 HERMAN & HELEN'S MARINA 15.35 West 8 Mile Rd., Stockton, CA 95219	209-95 -4634	North dock	\$5-20	8-4 winter 8-430 summer	No	Yes
28 KING ISLAND RESORT 1530 West 8 Mile Rd., Stockton, CA 95219	209-951-2188	Fuel dock	Tenants free; others \$15	8-5 winter 8-6 S/S summer	Use pumpout	Yes
29 NEW HOPE LANDING 5945 West Walnut Grove Rd., Thornton CA 95686	209-794-2627	Guest dock	\$25 large \$15 small	8-6	Pumpout wand	Yes
30 PARADISE POINT MARINA 8095 Rio Blanco Rd., Stockton, CA 95219	209-952-1000	Fuel dock	\$20 Moonge oustrar free	8-43C winter 7-6 Su-Th: 7-63C F/Su summer	Yes	Yes
31 RIVER POINT LANDING RESORT 4950 Buckley Cove Way, Stockton, CA 95219	209-95 1-414-4	Fuel dock	\$14 ree w/SC gals, fiel purchase	9-5:30 summer 9-5 winter	No	Yes
32 STOCKTON YACHT HARBOR 3235 River Drive, Stockton, CA 95204	209-946-9259	Guest dock	Free	24 hours	No	No
33 TIKI LAGUN RESORT 12988 W. McDonald Rd., Stockton, CA 95206	209-9-41-8975	Fuel dock	¢in	7:30-4	No	Yes
TOWER PARK MARINA 14900 West Hwy, IZ, Lodi, CA 95242	209-369-1041	Radish Shed, Beef She Corn Shed	d Tenants free;	7.30-5 winner 30-7 Sun-Th; 730-8 F-S summe	No	Yes
35 VILLAGE WEST MARINA 65-69 Embarcadero, Stockton, CA 95219	209-951-1551	Fuel dock	Free	24 hours	Yes	Yes
SOLANO COUNTY						
36 BINICIA MARINA 266 East B St., Benicia, CA 94510	707-745-2628	Fuel dock	Tenants free; others \$3	8-5 F/S winter 8-6 F/S summer	No	Yes
37 DETA MARINA YACHT HARBOR IO Marina Dr., Rio Vista, CA 9457	707-374-2315	Guest dock	Tenants free; others \$10	8-5 M-Su; 8-4 Su; closed Mon. winter	No	Yes
38 SUISUN CITY MARINA 800 Kellogg St., Suisun City, CA 94585	707-429-BOAT	End of fuel dock	Free	8:30-5	No	Yes
39 VALLEJO MUNICIPAL MARINA 43 Harbor Way, Vallejo, CA 94590	707-648-4370	Near fuel dock & near J dock gate	Tenants free; others \$5	830-430	No	Yes
YOLO COUNTY						
40 SHERWOOD HARBOR MARINA 3505 South River Rd., West Sacramento, 95691	916-371-3471	Fuel dock	\$ 5	8+5	No	Yes
Folsom Lake						
41 FOISOM LAKE MARINA Brown's Rayine, Folsom Lake, Alvarado Hills, CA 967/62	916-933-1300	Next to launch ramp	Free	7-7 winter G-10 summer	Yes	Yes
LAKE BERRYESSA						
42 MARKIEY COVE MARINA 7521 Hey, 128, Napa, CA 94558	707-966-2/34	Fuel dock	Free for those at resort: ski boat \$20	G-5 winter G-7 M-F G-8 S/S summer	No	Yes
		٥	ov \$30, houseboat \$50	0		
This guids was produced by the San Fancisco Brunzy Project in cooperation with the California Department of Boaring and Waterways under a guart from the Claim Vased Act. The San Fancisco Brunzy Project is a cooperative fidenal/state program whose primary goal is to promote environmentally sound management of the Bay and Dulta. The California						
In some memore indust, respect to a completing regional vision primary year is to produce entirely mentalizing some management of the new medium for the new medium f						
	is is available from the list	unity project. Call (410) 022-230	50.			

The Scuttlebutt

Captain your boat the clean way! Follow the tips in this guide for running a tight ship and you can avoid such indelicacies as flushing your head right into a school of stripers or spilling a drop of bilge oil into the sparkling blue deep. With these tips in mind and this map in hand, you can help keep our waters clear and clean for everyone who boats, sails, surfs, skis, swims and fishes in San Francisco Bay and the Delta.

As of 2004, there were 232,297 registered boats in the Bay-Delta region and nearly one million statewide—enough to make a sizable impact on water quality. The 1992 Clean Vessel Act identifies vessel sewage discharges as a "substantial contributor to localized degradation of water quality in the United States."

While the amount of sewage pollution contributed by boaters isn't enormous, it does impact the health of human water users and the Bay-Delta ecosystem. Swimmers, windsurfers or boaters who come in contact with raw sewage can get stomach aches, diarrhea, skin rashes, hepatitis and even typhoid or cholera. Diners with a taste for raw clams, oysters or mussels face some of the same perils if the shellfish have been contaminated with sewage. Fish can die when the biological processes that break down sewage steal too much oxygen from their waters.

Sewage is not the only problem. Today, many of the products we use to run and maintain our homes, gardens, workplaces, vehicles and even boats are ending up in our creeks, rivers and bays — the same watersheds that provide drinking water to 22 million Californians and irrigate 4.5 million acres of farmland. While the traces of these fuels, pesticides, paints, cleaners and polishes washing into our waterways won't kill a salmon or a seagull outright, studies show they are increasingly building up in the aquatic ecosystem, with documented sub-lethal effects.

So open up this guide and review its five to-do lists for preventing pollution, and its map of the pumpouts and port-a-potty dump stations located at marinas and yacht harbors around the Delta. Then stash your new guide in a handy dry place so you can always find it when you feel like doing your part to keep our Delta a world-class place to be on the water.

Clean Captain's Oath

- I will not use the Bay as a water closet.
- I will pump and dump at a convenient marina receiving station.
- I will use vim and vinegar to swab the decks.
- I will make merry but be wary
 (accidents lead to spills).
- I will deliver my trash to onshore receptacles.
- I will share these wise words and maps with fellow seadogs and mariners.



The Poop

- 1) A weekend boater flushing untreated sewage into the Bay produces the same amount of bacterial pollution as that of 10,000 people whose sewage passes through a treatment plant.
- 2) Studies have found elevated levels of fecal coliform bacteria a commonly used indicator for measuring the presence of feces in water where there are concentrations of recreational boaters.
- 3) Over 100 different intestinal pathogens viruses, parasites and bacteria can be found in sewage.
- 4) Fecal coliform counts dropped from 16,000 per 100 ml to 23 per 100 ml in California's Avalon Harbor after the harbor launched a boater education and clean water program. As part of the program, dye tablets are deposited in on-board toilets, making illegal discharges highly visible.
- 5) Synthetic hormones (from birth control pills and hormone therapy) secreted via women's urine into waterways can be absorbed by fish, causing physiological changes and affecting the reproductive ability of male fish. Antibiotics and other drugs taken by humans are also turning up in the nation's waterways.
- 6) A single gallon of used motor oil spilled in one million gallons of water will kill half of all exposed Dungeness crab larvae. An oil spill can also cause hypothermia and organ damage in waterbirds, otters and other marine mammals, which can be fatal.

Sources: 1) S.F. Bay Regional Water Quality Control Board; 2) Pollution Impacts from Recreational Boating. Milliken & Lee, NOAA; 3) Managing Wastewater in Coastal Urban Areas, National Research Council, pp. 203-226; 4) Avalon Harbor; 5) Karen Kidd, Winnepeg Freshwater Institute, Gov. of Canada, Fisheries & Oceans; 6) California Dept. of Fish & Game; 7) California Dept. of Boating & Waterways

Potty Prep

- Get equipped for proper handling of the sewage on your boat.
- ♣ Choose one of three Coast Guard-certified types of Marine Sanitation Devices (MSD) or a port-a-potty to hold or treat your waste (see The Equipment for more details).

Types I and II treat your sewage so you can discharge it legally; type IIIs and port-a-potties hold it until you can pump or dump it out at your local marina. From an environmental impact perspective, a Type III MSD may be best because it conveys your boat waste



into a local advanced sewage treatment system.

- Look for environmentally friendly disinfectants for your MSD. Whenever possible, chose products with ingredient lists that do not include chlorine, formaldehyde or other components that can be harmful to aquatic organisms and detrimental to pumpout facilities with septic systems. Whatever you chose, follow the instructions carefully and use only the amount recommended for effective treatment.
- Look for rapid-dissolving marine toilet paper specifically designed for MSDs.
- Keep your MSD in good operating condition. Make sure all fittings, hoses and other pump mechanisms stay clean and lubricated. Keep a repair kit on board.

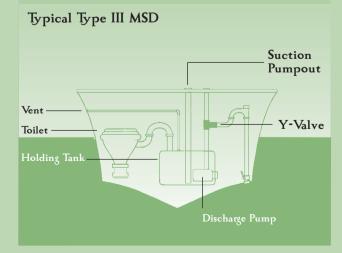


The Equipment

A Marine Sanitation Device (MSD) prevents pollution from the discharge of untreated sewage from a boat. According to Coast Guard regulations, all boats with an installed toilet must have one of the three types listed below.

Type I and II MSDs break up the sewage and disinfect it with chemicals. It is legal in most instances to discharge from either type directly overboard, but you must add the appropriate chemicals for treatment. Without this treatment, discharge from a Type I or II system is considered raw sewage and remains illegal within the three-mile limit (see *The Rules*). Type II MSDs, usually found on larger boats, provide more extensive treatment than Type I MSDs.

Type III MSDs, most commonly used by boaters, provide a holding tank for storing untreated sewage until it can be properly disposed of at an onshore pumpout station or by a mobile unit. Adding chemical deodorizers does not constitute treatment and does not allow you to dump wastes overboard. Some Type III MSDs have a "Y" valve, which allows you to dump directly overboard when you are operating outside the three-mile limit (except within federally designated No-Discharge Areas). Within the limit, you must secure the valve in the closed position with a padlock or non-releasable wire tie or remove the handle entirely.



Dump & Discharge Dos and Don'ts

Don't be a party pooper. Use the pump!
Familiarize yourself with the location and operation of pumpout and dumpout facilities at your favorite shore-

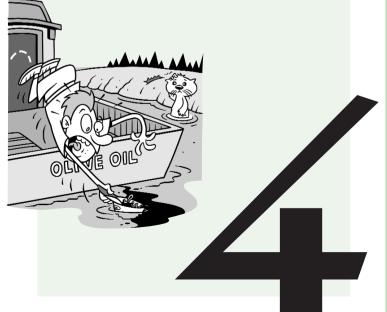
line haunts. The map and table inside tell you where to find these facilities around San Francisco Bay.



- Pat your local
 marina owner on the back for
 keeping pumpout facilities in good working
 order. Report any breakdowns immediately to
 the marina operator, local environmental health
 agency or local boating law enforcement officer.
- Never discharge untreated sewage wastes into the Delta or Bay.
- If you must discharge treated sewage, avoid doing so near: sensitive shellfish beds and fish nursery grounds; areas where others may be swimming, wind surfing, water skiing or playing in the water (see map); or shallow bays, marinas or places with little water movement or tidal flushing.
- Don't forget that Marin County's Richardson Bay is a "No-Discharge Area" where discharge of sewage, treated or untreated, from a vessel is strictly prohibited. When boating in Richardson Bay, a Type I or II MSD must be secured or the toilet sealed to ensure no wastes escape. As in all U.S. territorial waters, the "Y" valve must be adequately secured using a padlock or non-releasable wire tie or by removing the handle to prevent discharge of raw sewage.

Swab & Spill Drill

- Fill your fuel tank carefully, and avoid topping off. Soak up, rather than hose down, any spills.
- Fix engine and fuel line leaks promptly, to prevent oil and fuel spills. Minimize spills before and during repairs by placing a drip pan under the leak or your work area. Dispose of your motor oil and used oil filters at a waste oil recycling center.
- Place a bilge pillow (an oil absorbing sponge or bioremediating boom) in your bilge to remove oil. Remove oily bilge water at a bilge pumpout station.
- Clean your boat with non-toxic detergents and avoid rinsing into the Bay. Check out The Alternatives for non-toxic options to common boat clean up and maintenance products.
- Use maintenance methods that prevent pollutants, sanding dust or other debris from being released into the water. Hold off on most of your maintenance and repair work till the end of the season when your boat may be out of the water. Limit in-the-water maintenance and cleaning to times and places where debris can be captured and disposed of properly.



The Rules

- △ Discharges of untreated sewage are prohibited within the navigational waters of the U.S. (an area that includes the entire Bay and Delta and that extends three miles seaward beyond the coast).
- \$\times \text{ Fines of up to \$2000 can be imposed for illegal discharges. CWA §312 (j)
- △ It is legal to discharge untreated sewage at sea (at least three miles out from the coast) except in the Gulf of the Farallones National Marine Sanctuary, Monterey Bay National Marine Sanctuary and Cordell Bank National Marine Sanctuary, (see map) which have the same discharge restrictions (no untreated sewage) as inland waters.

Title 15, CFR, Sec. 922.82(a)(2)(ii)(A)

- All boats with installed toilets must have a Coast Guard-certified Marine Sanitation Device if operating in U.S. navigational waters. 33 CFR Part 159
- △ Vessels with a Type I or Type II Marine Sanitation Device must treat their sewage before discharge. For a Type I MSD, the fecal coliform count in the esfluent must be no greater than 1000 per 100 milliliters of water and have no visible floating solids. For a Type II MSD, the fecal coliform count must be no greater than 200 per 100 milliliters, and suspended solids no greater than 150 milligrams per liter. 33 CFR Part 159
- Discharges of any kind, treated or not, are prohibited in Richardson Bay — a designated No-Discharge Area. 40 CFR Part 140.4
- When operating on the navigable waters of any lake, reservoir or freshwater impoundment, the vessel toilet must be sealed, rendered inoperable or designed so no human sewage can be discharged in the water. Div.104, Part 13, Chapter A, CHSC
- Discharges of oil or other hazardous substances are prohibited within 12 miles of the coast and within fisheries and marine preserves up to 200 miles from the coast under the Clean Water Act. 40 CFR Part 110.6

CFR: Code of Federal Regulations CHSC: California Health & Safety Code CWA: Clean Water Act U.S.C.: U.S. Code

Clog & Clutter Control

- Avoid chopping vegetation with your boat propeller. Exotic plants clogging your waterways, including water hyacinth, Egeria densa and hydrilla, are easily spread this way.
- Before moving your boat from one lake or bay or river to another, inspect your boat for hitch-hikers. Then purge your vessel of invasive plant fragments and aquatic critters by flushing and draining your systems, emptying bait buckets, cleaning tackle and gear, and pressure-washing the hull with hot water. Dispose of any debris at on-shore garbage facilities.
- Stock your boat with reusable cups, plates and other utensils. Avoid plastic and Styrofoam, which can easily blow overboard, or must be hauled to shore for disposal.
- Retrieve plastic trash, netting, six-pack yokes and other items from the water and bring them back to dock. Floating and shoreline trash can not only entangle, injure or kill marine life, but also damage other vessels.

PUMPOUT INSTALLATION GRANTS

Grants are available to public and private marinas for construction and renovation of pumpout facilities and port-a-potty dump stations through provisions of the Clean Vessel Act of 1992 (covers up to 75% of cost). For more info, call the Department of Boating & Waterways (888) 326-2822.



The Alternatives

PRODUCT	NON-TOXIC APPROACH
DETERGENT & SOAP	Fresh water and a lot of elbow grease
BLEACH	Hydrogen peroxide
SCOURING POWDERS	Baking soda or salt
FLOOR CLEANER	One cup white vinegar in 2 gallons water
WINDOW CLEANER	One cup vinegar in 1 quart warm water
VARNISH CLEANER	Wipe with 1/2 cup vinegar and 1/2 cup water solution
HEAD CLEANER	Brush with baking soda
SHOWER CLEANER	Wet surface, use scouring cloth with baking soda
ALUMINUM CLEANER	Use 2 tablespoons cream of tartar in 1 quart of water
CHROME CLEANER/POLISH	Apple cider vinegar to clean, baby oil to polish
FIBERGLASS STAIN REMOVER	Baking soda paste
DRAIN OPENER	Disassemble and replace; avoid toxic products
MILDEW REMOVER	Paste of equal parts lemon juice and salt
WOOD POLISH	Use 3 parts olive oil and 1 part white vinegar; almond or olive oil (interior unvarnished wood only)

This guide was produced by the San Francisco Estuary Project in cooperation with the California Department of Boating and Waterways under a grant from the Clean Vessel Act. The information presented in this guide is accurate to the best of our knowledge. The San Francisco Estuary Project assumes no responsibility and disclaims any liability for any injury resulting from the use or effect of any product or information in this publication.

The Blue Pages

EMERGENCY

911 or Channel 16 (VHF)

WATER QUALITY VIOLATIONS

Oil & Fuel Spills (800) 424-8802

BayKeeper (800)KEEPBAY

Central Valley Regional Water Quality Control Board (916)464-3291

San Francisco Bay Regional Water Quality Control Board (510)622-2300

BOATING INFORMATION

California Department of Boating and Waterways (888)-326-2822

San Francisco Estuary Project (510)622-2398

U.S. EPA (No-Discharge Areas) (415)972-3476

COUNTY POLICE & SHERIFF BOAT/MARINE UNITS

Alameda (510)748-4508

Contra Costa (925)646-2441

Marin (415)479-2311

San Francisco (415)553-0123

San Mateo (650) 363-4911

Santa Clara (408)299-2311

Solano (707)421-7090

Sonoma (707) 565-2511

U.S. Coast Guard (415)399-3455

OIL SPILLS/RECYCLING

Oil/Hazardous Spill Reports (800)424-8802

Oil Recycling (800) CLEAN-UP

PUMPOUT INFORMATION

For the nearest pumpout station in California see: www.dbw.ca.gov

BOATING SAFETY

U.S. Coast Guard (800) 368-5647

BOATING SAFETY CLASSES

U.S. Coast Guard (800)869-SAIL

U.S. Power Squadron (919)821-0281

FISH & WILDLIFE

California Dept. of Fish & Game Hotline (800)952-5400

Marine Mammal Center (injured animals) (415)289-7,325

Non-Native Aquatic Species Reports (888) 321-8193

human health

Department of Health Services (communicable diseases) (510)540-2566

Shellfish Information Hotline (warnings) (800)553-4133

Office of Environmental Health Hazard Assessment (Fish warnings) (\$10)\$40-3063

SPONSORS

CALIFORNIA DEPT. OF BOATING AND WATERWAYS

2000 Evergreen Street Suite 100 Sacramento, CA 95815-3888 888-326-2822 fax (916) 263-0648 www.dbw.ca.gov

an Francisco Estuary Project

SAN FRANCISCO ESTUARY PROJECT

1515 Clay Street, Suite 1400 Oakland, CA 94612 (510) 622-2398 fax (510) 622-2501 http://sfep.abag.ca.gov